

**Genes are listed in alphabetical order.**  
**Links to reXbase and PubMed/Genbank are provided.**

Gene name	Annotation	Cluster	Reference	Pubmed/Genbank
Adam1	Rattus norvegicus a disintegrin and metalloproteinase domain 1 (fertilin alpha) (Adam1), mRNA	post-meiotic	Kim et al., 2003	12711316
Adam10	R.norvegicus mRNA for disintegrin-metalloprotease.	Somatic	Eto et al., 2002	11882657
Adam2	Rattus norvegicus a disintegrin and metalloprotease domain 2 (Adam2), mRNA	Meiotic	Evans, 2002	12206465
Adam3	Rattus norvegicus a disintegrin and metalloprotease domain 3 (cyritestin) (Adam3), mRNA	Meiotic	Evans, 2002	12206465
Adam4	Rattus norvegicus a disintegrin and metalloprotease domain (ADAM) 4 (Adam4), mRNA	post-meiotic	Cho et al., 1996	8786143
Adam5	Rattus norvegicus a disintegrin and metalloprotease domain (ADAM) 5 (Adam5), mRNA	Meiotic	Cho et al., 1996	8786143
Adam6	Rattus norvegicus a disintegrin and metalloproteinase domain 6 (Adam6), mRNA	post-meiotic	Frayne et al., 1997	9291465
Aif1	Rattus norvegicus allograft inflammatory factor 1 (Aif1), mRNA	post-meiotic	Utans et al., 1995	7769138
Akap1	Rattus norvegicus A kinase (PRKA) anchor protein 1 (Akap1), mRNA	post-meiotic	Feliciello et al., 1998	9722570
Akap4	Rattus norvegicus 75 kDa fibrous sheath protein (Akap4), mRNA	post-meiotic	Brown et al., 2003	12606363
Aldoa	Rattus norvegicus aldolase A (Aldoa), mRNA	Somatic	Mukai et al., 1986	3753977
Aldr1	Rattus norvegicus Aldehyde reductase 1 (Aldr1), mRNA	Somatic	Graham et al., 1991	1748296
Aqp7	Rattus norvegicus aquaporin 7 (Aqp7), mRNA	post-meiotic	Ishibashi et al., 1997	9299432
Aqp8	Rattus norvegicus aquaporin 8 (Aqp8), mRNA	post-meiotic	Ishibashi et al., 1997	9299432
Aqp9	Rattus norvegicus aquaporin 9 (Aqp9), mRNA	Meiotic and not somatic	Pastor-Soler et al., 2002	12021052
Atp1a1	Rattus norvegicus Na,K-ATPase alpha-1 subunit, mRNA	Somatic	Herrera et al., 1987	2822726
Atp2c1	ATPase, Ca++-sequestering [Rattus norvegicus]	Somatic	Guntesski-Hamblin et al., 1992	1380825
Atp5g2	Rattus norvegicus P2 mRNA for ATP synthase subunit c	Somatic	Higuti et al., 1993	8448208
Cd9	Rattus norvegicus CD9 antigen (p24) (Cd9), mRNA	Somatic	Kanatsu-Shinohara et al., 2003	12954725
Cd9	Rattus norvegicus CD9 antigen (p24) (Cd9), mRNA	Somatic	Le Naour et al., 2000	10634790
Cdc20	Rattus norvegicus cell cycle protein p55CDC gene	Meiotic	Weinstein et al., 1994	7513050
Cdh2	Rattus norvegicus cadherin 2 (Cdh2), mRNA	Somatic	Chung et al., 1998	9528971
c-Fos	Rat c-fos mRNA	Somatic	Jenab and Morris, 1998	9528974
Clk3	Rattus norvegicus CDC-like kinase 3 (Clk3), mRNA	post-meiotic	Menegay et al., 1999	10585269
Col3a1	Rattus norvegicus collagen, type III, alpha 1 (Col3a1), mRNA	Mitotic	Frankel et al. 1988	2456904
Copeb / Zfg	Rattus norvegicus core promoter element binding protein (Copeb), mRNA	Mitotic	Ratziu et al., 1998	9689109
Crem	Rattus norvegicus cAMP responsive element modulator (Crem), mRNA	Meiotic	Don and Stelzer, 2002	11988318
Cst8 / CRES	Rattus norvegicus cystatin 8 (Cst8), mRNA	post-meiotic	Cornwall and Hann, 1995	7619504
Ctgf	Rattus norvegicus connective tissue growth factor (Ctgf), mRNA	Mitotic	Nakanishi et al., 2001	11237711
Ctnnb1	Rattus norvegicus myosin heavy chain mRNA	Somatic	Lee et al., 2003	12533412
Ctsl	Rattus norvegicus cathepsin L (Ctsl), mRNA	Somatic	Chung et al., 1998	9876020
Cytc	Rattus norvegicus cytochrome c, somatic (Cytc), mRNA.	Somatic	Virbasius and Scarpulla, 1988	2834389
Cyct	Rat testis-specific cytochrome c mRNA.	Meiotic	Virbasius and Scarpulla, 1988	2834389
Cyp17	Rattus norvegicus cytochrome P450, subfamily 17 (Cyp17), mRNA	post-meiotic	Payne, 1990	2160293
Egr1	Rattus norvegicus early growth response 1 (Egr1), mRNA	Mitotic	Tourtellotte et al., 2000	10866682
Epha7	Rattus norvegicus Eph receptor A7 (Epha7), mRNA	post-meiotic	Valenzuela et al., 1995	7731712
Fgfr1	Rattus norvegicus Fibroblast growth factor receptor 1 (Fgfr1), mRNA	Mitotic	Cancilla et al., 2000	10657850

Fosl1	Rattus norvegicus fos-like antigen 1 (Fosl1), mRNA	Mitotic	Cohen et al., 1993	8426749
Gas7	Rattus norvegicus mRNA for GAS-7 protein	Somatic	Chao and Lin-Chao, 1997	AJ003148
Gata4	Rattus norvegicus GATA binding protein 4 (Gata4), mRNA	Mitotic	Lovell-Badge et al., 2002	11990796
Grb14	Rattus norvegicus growth factor receptor bound protein 14 (Grb14), mRNA	Somatic	Kasus-Jacobi et al., 1998	9748281
Gsta1	Rattus norvegicus glutathione S-transferase, alpha 1 (Gsta1), mRNA	Somatic	Rao and Shaha, 2000	11084290
Gstm2	Rattus norvegicus glutathione S-transferase, mu 2 (Gstm2), mRNA	Somatic	Rao and Shaha, 2000	11084290
Gstp2	Rattus norvegicus glutathione S-transferase, pi 2 (Gstp2)	Somatic	Rao and Shaha, 2000	11084290
H1f0	Rattus norvegicus H1 histone family, member 0 (H1f0), mRNA	Mitotic	Castiglia et al., 1994	7877725
H3f3b	Rattus norvegicus H3 histone, family 3B (H3f3b), mRNA	Mitotic	Castiglia et al., 1994	7877725
Hipk3	Rattus norvegicus homeodomain-interacting protein kinase 3 (Hipk3), mRNA	Meiotic	Kim et al., 1998	9748262
Hsd3b1	Rattus norvegicus hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 (Hsd3b1), mRNA	post-meiotic	O'Shaughnessy et al., 2002	11906915
Id2	Rattus norvegicus Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein (Id2), mRNA	Mitotic	Chaudhary et al., 2001	11316735
Igfbp2	Rattus norvegicus insulin-like growth factor binding protein 2 (Igfbp2), mRNA	Mitotic	Wang et al., 1994	7512196
Igfbp3	Rattus norvegicus insulin-like growth factor binding protein 3 (Igfbp3), mRNA	Mitotic	Shimasaki et al., 1989	2480787
Il6r	Rattus norvegicus interleukin 6 receptor (Il6r), mRNA	Somatic	Fujisawa et al., 2002	12108784
Il6st	Rattus norvegicus Interleukin 6 signal transducer (Il6st), mRNA	Somatic	Fujisawa et al., 2002	12108784
Itmap1	Rattus norvegicus integral membrane-associated protein 1 (Itmap1), mRNA	post-meiotic	Imamura et al., 2002	12401800
Jak1	Rattus norvegicus mRNA for Janus protein tyrosine kinase 1	Somatic	Kanzaki and Morris, 1998	9564881
JunB	Rattus norvegicus Jun-B oncogene (Junb), mRNA	Mitotic	Alcivar et al., 1990	1700782
Klf9	Rattus norvegicus Kruppel-like factor 9 (Klf9), mRNA	Mitotic	Imataka et al., 1992	1356762
Krp2	Rattus norvegicus kinesin-related protein 2 (KRP2), mRNA	post-meiotic	Sperry and Zhao, 1996	8688559
Krp5	Rattus norvegicus kinesin-related protein KRP5 (Krp5), mRNA	post-meiotic	Sperry and Zhao, 1996	8688559
Ldhb	Rattus norvegicus lactate dehydrogenase-B (LDH-B) mRNA	Somatic	Edwards et al., 1987	2844458
Ldhc	Rattus norvegicus lactate dehydrogenase 3, C chain (Ldhc), mRNA.	Meiotic	Edwards et al., 1987	2844458
Mgp	Rattus norvegicus matrix Gla protein (Mgp), mRNA	Mitotic	Price et al., 1987	3317405
Miz1	Rattus norvegicus Msx-interacting-zinc finger (Miz1), mRNA	Meiotic	Moilanen et al., 1999	9920921
Mor1	Rattus norvegicus malate dehydrogenase, mitochondrial (Mor1), mRNA	Somatic	Grant et al., 1986	3755817
Mrlcb	Rat mRNA for myosin regulatory light chain (RLC)	Mitotic	Taubman et al., 1987	3584239
Myh9	Rattus norvegicus nonmuscle myosin heavy chain-A mRNA	Mitotic	Choi et al., 1996	8740433
Mylc2a	Rat RLC-A gene for myosin regulatory light chain	Mitotic	Grant et al., 1990	2391362
Nedd4a	Rattus norvegicus ubiquitin ligase (Nedd4) protein, mRNA	Somatic	Staub et al., 1997	9227416
Nr0b1	Rattus norvegicus nuclear receptor subfamily 0, group B, member 1(Nr0b1), mRNA	Somatic	Meeks et al., 2003	12679814
Odf1	Rattus norvegicus outer dense fiber of sperm tails 1 (Odf1), mRNA	post-meiotic	Burmester and Hoyer-Fender, 1996	8873064
Odf2	Rattus norvegicus sperm outer dense fiber major protein 2 (Odf2), mRNA	Meiotic	Brohmann et al., 1997	9092585
Odf3	Rattus norvegicus outer dense fiber ODF3 (ODF3), mRNA	post-meiotic	Petersen et al., 2002	11774381
Pcsk4	Rattus norvegicus proprotein convertase subtilisin/kexin type 4 (Pcsk4), mRNA	Meiotic and not somatic	Mbikay et al., 1997	9192653
Pdgfa	Rattus norvegicus platelet derived growth factor, alpha (Pdgfa), mRNA	Mitotic	Basciani et al., 2002	11994382
Pgam1	Rattus norvegicus phosphoglycerate mutase 1 (Pgam1), mRNA	Somatic	Urena et al., 1992	1533381
Pitx2	Rattus norvegicus paired-like homeodomain transcription factor 2 (Pitx2), mRNA	Meiotic	Kioussi et al., 2002	12464179
Pkm2	Rattus norvegicus pyruvate kinase, muscle (Pkm2), mRNA	Somatic	Noguchi et al., 1986	3020052
Polb	Rattus norvegicus DNA polymerase beta (Polb), mRNA	Meiotic	Alcivar et al., 1992	1536896
Pp2a	Rattus norvegicus protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), beta isoform (Pppr2b2), mRNA	post-meiotic	Van Den Ham et al., 2003	12606433
Ppp2ca	Rattus norvegicus protein phosphatase 2a, catalytic subunit, alpha isoform (Ppp2ca), mRNA	Mitotic	Kitagawa et al., 1998	2461222

Prdx1	Rattus norvegicus peroxiredoxin 1 (Prdx1), mRNA	Somatic	Lee et al., 2002	12163022
Prdx2	Rattus norvegicus peroxiredoxin 2 (Prdx2), mRNA	Somatic	Lee et al., 2002	12163022
Prm2	Rat gene for protamine 2	post-meiotic	Cho et al., 2001	11326282
Prm3	Prm3=protamine [rats, testis, mRNA, 515 nt].	post-meiotic	Schluter and Engel, 1995	8521723
Prnp	Rattus norvegicus prion protein (Prnp), mRNA	Somatic	Behrens et al., 2002	12110578
Prss11	Rattus norvegicus protease, serine, 11 (Prss11), mRNA	Somatic	Hourvitz et al., 1999	NM_031721
Psap / SGP-1	Rattus norvegicus prosaposin (Psap), mRNA	Somatic	Collard et al., 1988	3048385
Psma2	Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 2 (Psma2), mRNA	Somatic	Tanaka et al., 1990	2340272
Psma3	Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 3 (Psma3), mRNA	Somatic	Tanaka et al., 1990	2403356
Psmc3 / Tbp-1	Rattus norvegicus proteasome (prosome, macropain) 26S subunit, ATPase 3 (Psmc3), mRNA	Meiotic	Rivkin et al., 1997	9266764
Psme1	Proteasome activator complex subunit 1	Somatic	Ahn et al., 1995	7789512
Psme2	Proteasome activator complex subunit 2	Somatic	Ahn et al., 1995	7789512
Ptgfr	Rattus norvegicus prostaglandin F receptor (Ptgfr), mRNA	Somatic	Orlicky and Williams-Skipp, 1992	1283465
Rap1b	Rattus norvegicus RAP1B, member of RAS oncogene family (Rap1b), mRNA	Somatic	Lou et al., 2002	12089143
Rbbp7	Rattus norvegicus retinoblastoma binding protein mRNA	Somatic	Ariazi et al., 1998	AF090306
Rbp1	Rattus norvegicus retinol binding protein 1 (Rbp1), mRNA	Somatic	Livera et al., 2002	12141930
Rpl35	Rat 60S ribosomal subunit protein L35 mRNA	Mitotic	Suzuki et al., 1990	2322279
Rps3	Rat mRNA for ribosomal protein S3	Mitotic	Chan et al., 1990	2275563
Rps4	Rat mRNA for ribosomal protein S4	Mitotic	Devi et al., 1989	2660908
Scd2	Rattus norvegicus stearoyl-Coenzyme A desaturase 2 (Scd2), mRNA	Somatic	Saether et al., 2003	12606372
Scp2	Rattus norvegicus sterol carrier protein 2 (Scp2), mRNA	Somatic	van Haren et al., 1992	1374267
Scya2 / Mcp-1	Rattus norvegicus small inducible cytokine A2 (Scya2), mRNA	Mitotic	Le Goffic et al., 2002	11897701
Sert1	Rat Sertoli cell protein (SERT-1) mRNA	Meiotic	Chaudhary and Skinner, 1998	AF077195
Shbg	Rattus norvegicus sex hormone binding globulin (Shbg), mRNA	Somatic	Joseph et al., 1997	9002629
Sod3	Rattus norvegicus superoxide dismutase 3 (Sod3), mRNA	Somatic	Mruk et al., 2002	12020784
Sp10	Rattus norvegicus sperm protein 10 (Sp10), mRNA	post-meiotic	Reddi et al., 2002	11730901
Spam	Rattus norvegicus sperm adhesion molecule (Spam), mRNA	post-meiotic	Zheng et al., 2001	11845284
Ssdp	Rattus norvegicus sequence-specific single-stranded-DNA-binding protein (Ssdp), mRNA	Somatic	Raval-Fernandes et al., 1999	10524251
Stat3	Rattus norvegicus signal transducer and activator of transcription 3 (Stat3), mRNA	Mitotic	Jenab and Morris, 1998	9528974
Sycp2	Rattus norvegicus synaptonemal complex protein 2 (Sycp2), mRNA	Meiotic	Offenberg et al., 1998	9592139
Sycp3	Rattus norvegicus synaptonemal complex protein 3 (Sycp3), mRNA	Meiotic	Botelho et al., 2001	11311943
Tbp	TATA box binding protein (Transcription initiation factor TFIID)	Meiotic and not somatic	Persengiev et al., 1996	8776734
Testin	Rattus norvegicus testin (LOC286916), mRNA	Somatic	Grima et al., 1995	7711203
Tnp1	Rattus norvegicus transition protein 1 (Tnp1), mRNA	post-meiotic	Yu et al., 2000	10781074
Tnp2	Rattus norvegicus transition protein 2 (Tnp2), mRNA	post-meiotic	Zhao et al., 2001	11585907
Top2a	Rattus norvegicus topoisomerase (DNA) 2 alpha (Top2a), mRNA	Meiotic	Cobb et al., 1999	10654080
Tpm1	Rattus norvegicus tropomyosin 1, alpha (Tpm1), mRNA	Mitotic	Yamawaki-Kataoka and Helfman, 1985	3840484
Tpm4	Rattus norvegicus tropomyosin 4 (Tpm4), mRNA	Mitotic	Grieshaber et al., 2003	12488327
Tpx1	Rattus norvegicus testis specific protein 1 (Tpx1), mRNA	Meiotic and not somatic	Maeda et al., 1998	9675100
Tsx	Rattus norvegicus testis specific X-linked gene (Tsx), mRNA	Somatic	Cunningham et al., 1998	9882475

Ube2d2	Rattus norvegicus ubiquitin-conjugating enzyme E2D 2 (Ube2d2), mRNA	Meiotic	Wing et al., 1996	8754804
Ube2d3	Rattus norvegicus ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5) (Ube2d3), mRNA	Somatic	Wing et al., 1996	8754804
Uchl1	Rattus norvegicus ubiquitin carboxy-terminal hydrolase L1 (Uchl1), mRNA	Somatic	Kajimoto et al., 1992	1331034
Ureb1	Rattus sp. DNA binding protein (URE-B1), mRNA	Somatic	Gu et al., 1994	7968380
Vegf	Rattus norvegicus vascular endothelial growth factor (Vegf), mRNA	Mitotic	Haggstrom Rudolfsson et al., 2003	14561656
Wt1	Rattus norvegicus Wilms tumor 1 (Wt1), mRNA	Somatic	Rassoulzadegan et al., 1993	7504588
Ywhab	Rattus norvegicus tyrosine 3-monooxygenase/tryptophan 5 monooxygenase activation protein, beta polypeptide (Ywhab), mRNA	Somatic	Takai et al., 1995	8749325
Zfp36	Rattus norvegicus zinc finger protein 36 (Zfp36), mRNA	Mitotic	Lai et al., 1995	7559666